







DRAWING ISSUE	
1	DRS LGR FC
2A	DRS LGR FC
3B	DRS LGR FC

FIG. 2 TRANSMISSION PAD AND PAD CONTROL CKT

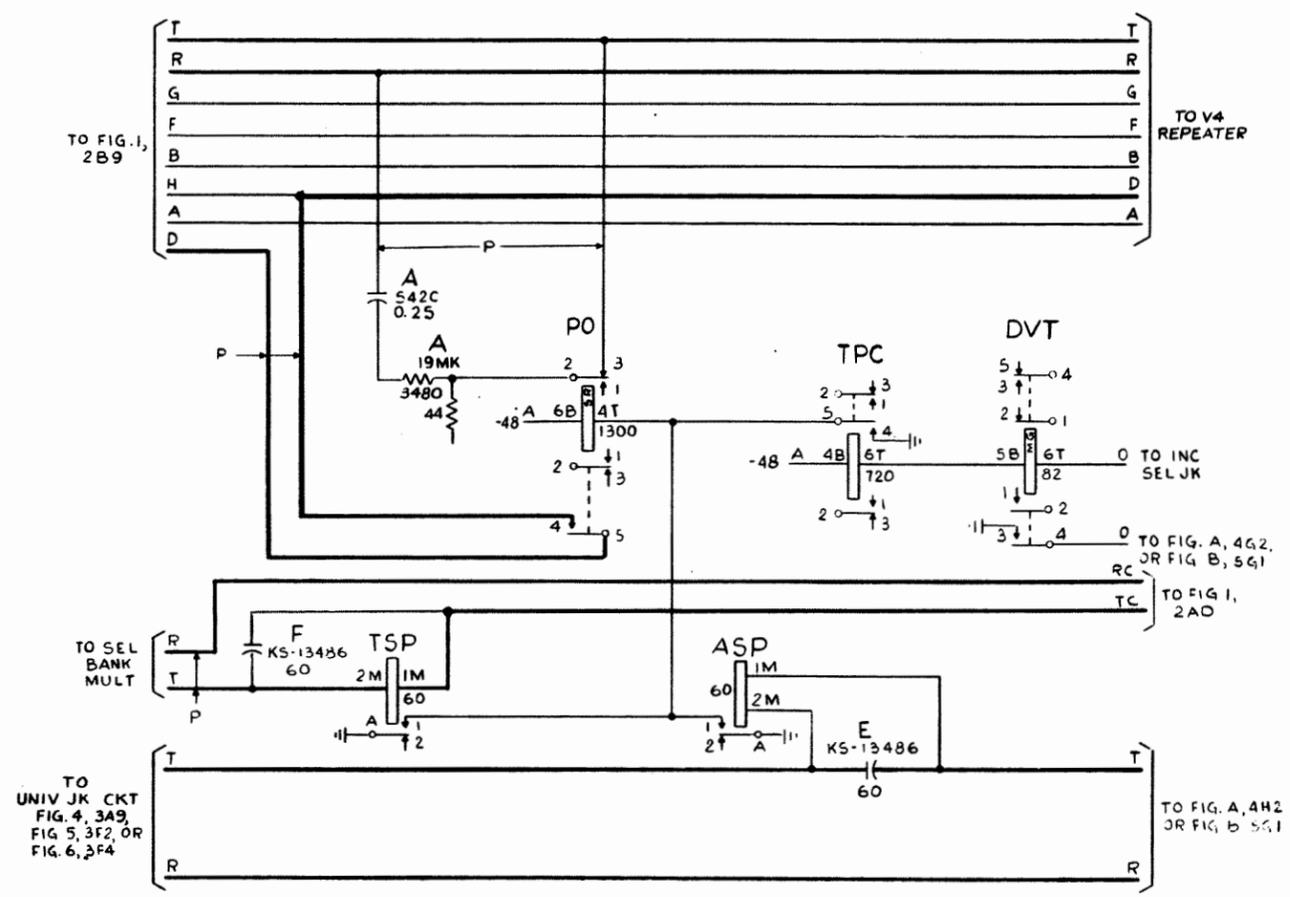


FIG. 3 INDUCTOR CKT

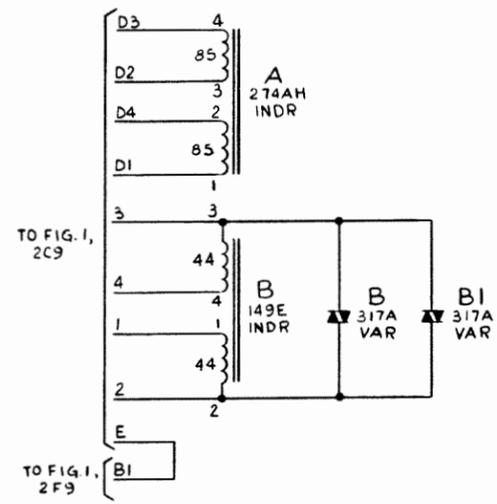


FIG. 4 C (PAD-OUT) JACK CKT (552A, 552D, 556A, 605A)

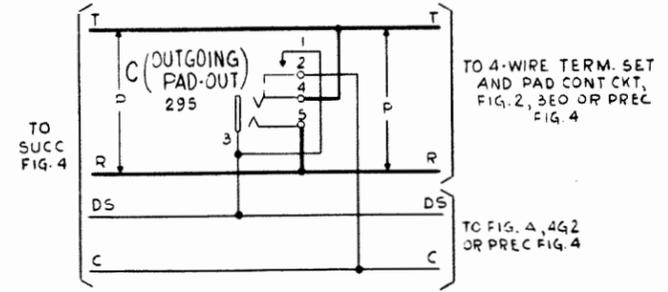


FIG. 5 C (PAD-OUT) JACK CKT (607A)

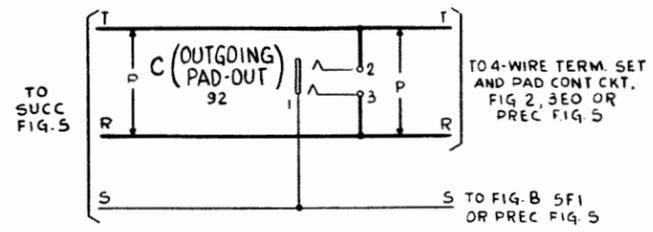


FIG. 6 C (PAD-OUT) JACK CKT (603A)

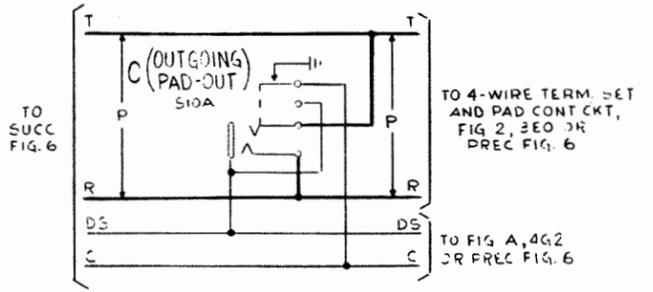
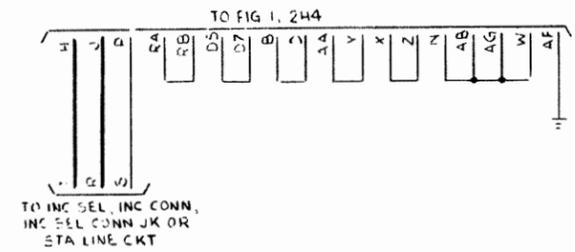


FIG. C NO. 711A, 711B, OR 740E WITHOUT ATT SWBD APPLIQUE CKT



SD-66799-0103

PBX SYSTEMS  
NO. 552A, 552D, 556A, 605A, 607A, 608A, 701A, 701B, 711A, 711B, OR 740E TIE TRUNK CIRCUIT

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FIG. A  
NO. 552A, 552D, 556A, 605A OR 608A  
SWITCHBOARD APPLIQUE CKT

DRAWING	ISSUE
1	REV L64
2A	REV 4/15/57
3B	REV 1/15/57

FIG. 7  
A (INC) AND B (PAD-IN)  
JACK AND LAMP CKT  
(552A, 552D, 556A, 605A)

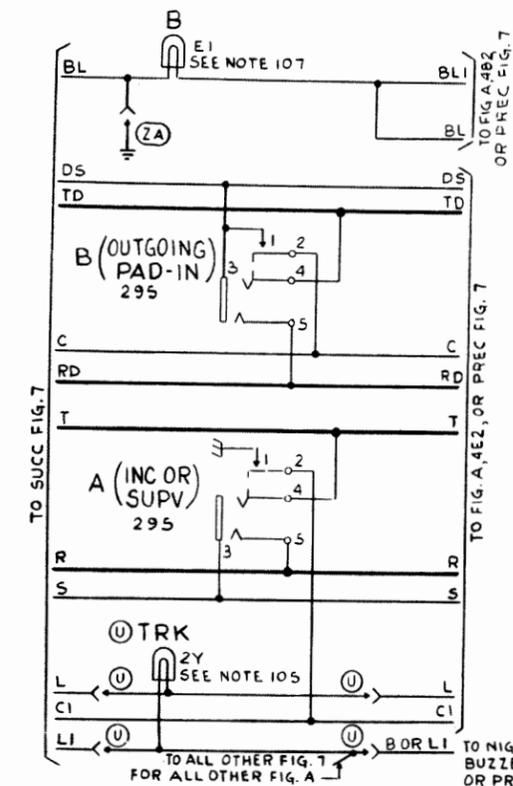
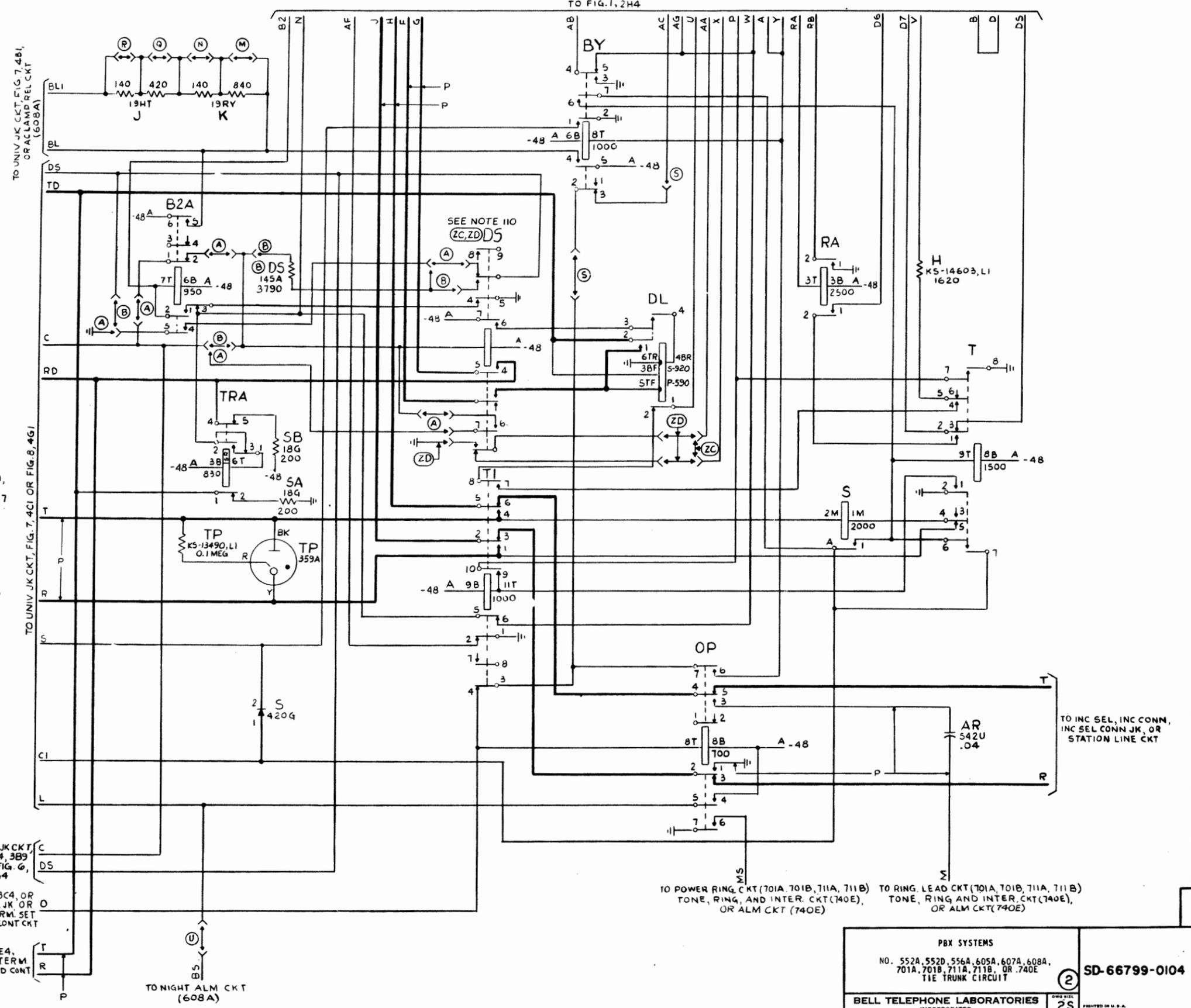
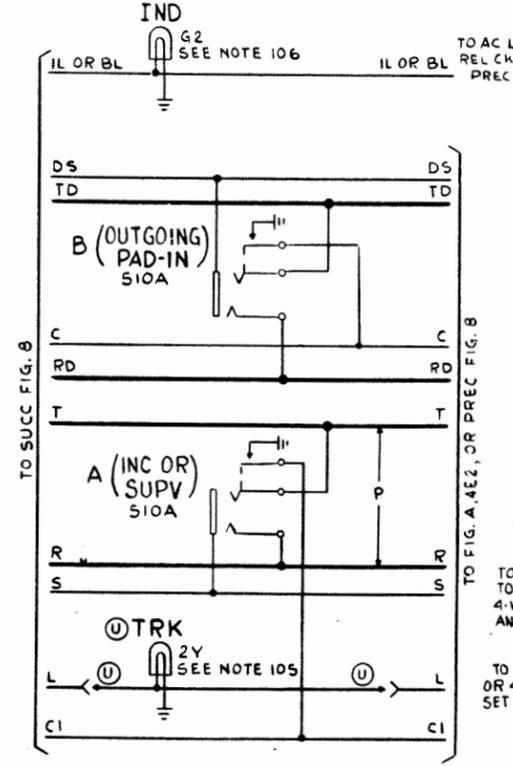


FIG. 8  
A (INC) AND B (PAD-IN)  
JACK AND LAMP CKT  
(608A)



PBX SYSTEMS  
NO. 552A, 552D, 556A, 605A, 607A, 608A,  
701A, 701B, 711A, 711B, OR 740E  
TIE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES  
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2S

FIG. B  
NO 607A SWITCHBOARD  
APPLIQUE CKT

DRAWING ISSUE	
1	DRS LCK EC
2A	577 701 1117 FC
3B	577 701 1117 FC

FIG. 9  
JACK AND LAMP CKT  
A (INC) & B (PAD-IN)  
(607A)

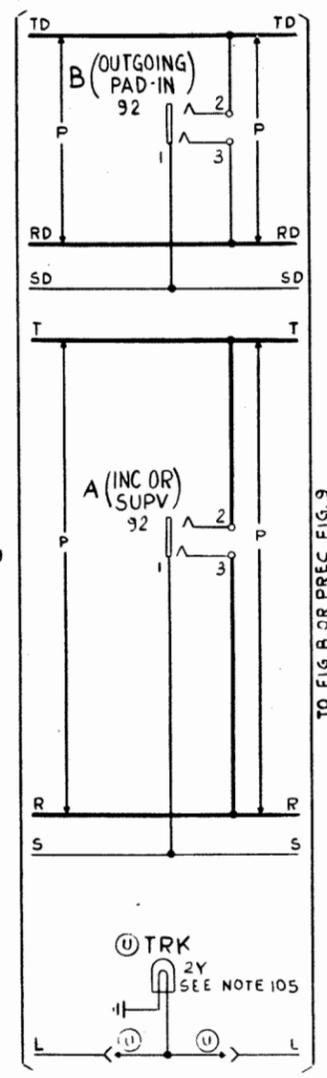


FIG. 10  
AC IDLE OR BUSY  
INDICATING CKT

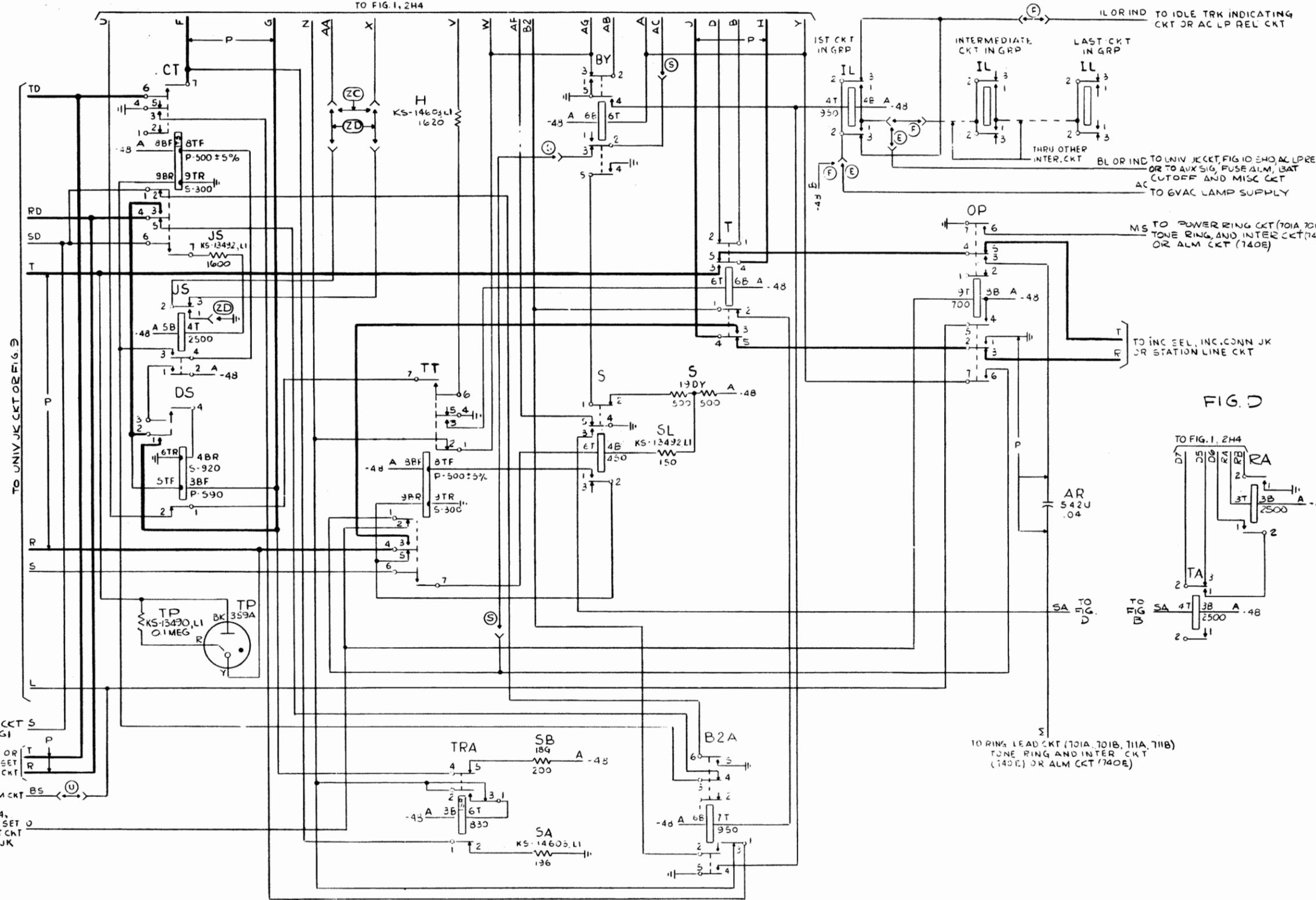
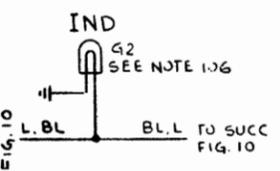
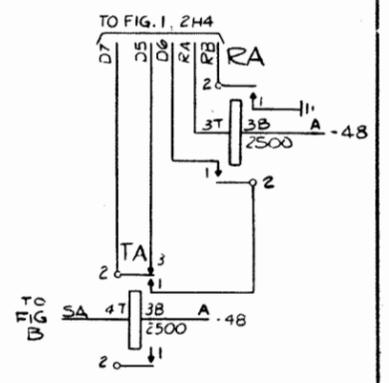


FIG. D



TO RING LEAD CKT (701A, 701B, 711A, 711B)  
TONE RING AND INTER CKT  
(740E) OR ALM CKT (740E)

TO UNIV JK CKT S  
OR FIG 5, 3G1

TO FIG 2, 3E4, OR  
4-WIRE TERM. SET  
AND PAD CONT CKT

TO NIGHT ALM CKT

TO FIG. 2, 3C4,  
4-WIRE TERM. SET  
AND PAD CONT CKT  
OR INC SEL JK

TO SUCC  
FIG. 9

TO FIG. B OR PREC FIG. 9

TO UNIV JK CKT OR FIG. 9

TO INC SEL, INC. CONN JK  
OR STATION LINE CKT

TO POWER RING CKT (701A, 701B)  
TONE RING AND INTER CKT (740E)  
OR ALM CKT (740E)

TO UNIV JK CKT, FIG. 10, AC LP REL CKT,  
OR TO AUX SIG, FUSE ALM, BAT  
CUTOFF AND MISC CKT  
AC  
TO GVAC LAMP SUPPLY

TO IDLE TRK INDICATING  
CKT OR AC LP REL CKT

SD-66799-0105

PBX SYSTEMS  
NO. 552A, 552D, 556A, 605A, 607A, 608A,  
701A, 701B, 711A, 711B, OR 740E  
TIE TRUNK CIRCUIT

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2S

SD-66799-01		3 PAGES		CIRCUIT REQUIREMENTS															DRAWING ISSUE								
TIE TRUNK CKT															1	JLP											
APPARATUS				MECH REQ			CIRCUIT PREPARATION				DIRECT CURRENT FLOW REQ				REMARKS				1	L66							
DESIG	CODE	OPTION	FIG	LOC	BSP FIG	CONT PRESS	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK	TEST	READJ					2A	FC				
									CONN BAT.	CONN GRD			TEST FOR	MA	MA	MA					3B	1/11					
RELAYS																											
A	280AJ		1	2C6	A				3T & 3B(RV)	(A)SKT 3	(A)SKT 8	B/G	1,2	P/S	0	-25	1.2	0.6									
									(A)SKT 3	(A)SKT 8	B/G	1,2	P/S	NO	-25	0.C.	0.4	WINDING ALONE									
ASP	B1139		2	3D2	14					2M(ASP)	1M(ASP)	B/G			0		6.9	6.6									
									2M(ASP)	1M(ASP)	B/G			R		3	3.2										
B	Y316		1	2C5	120/203	H	47			T(B)		GRD			0	40	26.5	25									
														H	40	3.9	3.7										
														R	40	1.1	1.4										
B1	Y293		1	2C2	215/145	H	47			T(B1)		GRD	3		0	FS	23	21.5									
														H	FS	4.4	4.1										
														R	FS	1	1.3										
B2	Y210		1	2E3	175/130	H	47	(B1)NO		T(B2)		GRD			0	FS	35	33.5									
									(B1)NO					H	FS	3.8	3.6										
									(B1)NO					R	FS	1.1	1.3										
B2A	U1412	A	B	4B3	137/130	H	44			T(B2A)		GRD			0		20.5	19.5									
									5G5																		
BY	U191		A	4A5	183/108	H	47			T(BY)		GRD			0		13.9	13.2									
BY	U679		B	5A5	108/108	H	47			T(BY)		GRD			0		18.5	17.5									
C																											
Y192			1	2A7	190/175	H	47			T(C)		GRD			0	FS	46.5	44									
														H	FS	6.2	5.9										
														R	FS	2.6	3.2										
CT	U1070		B	5A2	317/317	H	59			BR(CT)		BAT.	4	S	0	FS	51.5	49									
									BR(CT)					S	0		130										
									BR(CT)					S	NO	95	100										
									BR(CT)	TF(CT)		M	P/S	C		32											
D	280Y		1	2D7	B					ST(D1)	SB(TR)	B/G		P	0	-45		1.1									
									(D1)O					P	NO	-45		0.8									
									(TR)O					P	0	-45	5.2	4.9									
									(D1)NO					P	R	45	1.3	1.2									
									(TR)O					P/S	0		0.8										
D1	U157		1	2D6	108/132	H	47			T(D1)		GRD			0		8.6	8.1									
DL	U1095		A	4C6	305/144	H	47	1T(DL)		BF(DL)	TF(DL)	B/G	6	P	0		16.5	15.5									
									1T(DL)					P	0		19	18									
														S	0		31.5										
DS	U740	ZC	A	4C5	145/145	H	47			T(DS)		GRD			0		20.5	19.5									
									U73	ZD	A	4C5	146/117	H	47			0		21	20						

- TEST NOTES:
- REMOVE RESISTANCE LAMP (A) FROM ITS SOCKET.
  - CONNECT 1 (A) SOCKET TO 6 (A) SOCKET.
  - ADJACENT RELAYS SHALL NOT BE ENERGIZED. SEE BSP.
  - TO MAKE 6-7T, 6-7B ONLY, SPRINGS 6-7T, 6-7B SHALL MAKE BEFORE TOP OR BOTTOM STUD STRIKES BUFFER SPRING.
  - WITH THIS CURRENT STUD GAPS OF 4T, 4B SPRINGS SHALL BE PERCEPTIBLE.
  - CONT 3-4T SHALL MAKE.

NO. 552A, 552D, 556A, 605A, 607A, 608A, 701A, 701B, 711A, 711B OR 740E  
TIE TRUNK CIRCUIT

**SD-66799-0106**

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SD-66799-01		3 PAGES		CIRCUIT REQUIREMENTS															DRAWING ISSUE						
TIE TRUNK CKT															1	JLP									
APPARATUS				MECH REQ			CIRCUIT PREPARATION				DIRECT CURRENT FLOW REQ				REMARKS				1	L66					
DESIG	CODE	OPTION	FIG	LOC	BSP FIG	CONT PRESS	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK	TEST	READJ					2A	FC		
									CONN BAT.	CONN GRD			TEST FOR	MA	MA	MA					3B	1/11			
DS	U1095		B	5D2	305/144	H	47	1T(DS)		BF(DS)	TF(DS)	B/G	1	P	0		16.5	15.5							
									1T(DS)					P	0		19	18							
														S	0		31.5								
DVT	U970		2	3B3	160/111		47			T(DVT)		GRD	2		0		38	36							
														NO		23	24.5								
IL	U141		B	5A6	132/132	H	47			T(IL)		GRD			0		18.5	17.5							
JS																									
U158			B	5C2	132/111	H	47			T(JS)		GRD			0		7.9	7.5							
L																									
5515			1	2C6	BM		10	3T & 3B (RV)		(A)SKT 3	A(SKT)8	B/G	3	P1/P2	0		11.6	11							
														R		5.3	5.6								
														NO		9.4	9.9								
LU	U6079		1	2G2	110/101	H	35	4T(LU)		T(LU)		GRD	4		0		7.1	6.8							
														NO		5.8	6.1								
LU1	U6071		1	2F1	144/144	H	35	(LU)O		T(LU1)		GRD	5		0		9.8	9.3							
														R		1.6	1.7								
OP																									
U722			A	4F6	148/145	H	47	(T1)O		T(OP)		GRD			0		22.5	21							
									B	5C7															
PO																									
Y73			2	3B2	175/108	H	47			ST(TPC)		GRD			0		31.5	24.5	23						
R																									
280DP			1	2G7	A					(D)JK R	(D)JK T	NGB	6.7	P1/P2	0	-45	1.9	0.9							
														NO	-45	0.C.	0.6								
RA	U624		A	4C7	101/101	H	29			T(RA)		GRD			0		6.7	6.3							
									D	5D9															
RV	U1022		1	2F6	319/319	H	53			T(RV)		GRD			0		26.5	25							

- TEST NOTES:
- CONTACT 3-4T SHALL MAKE.
  - RELAYS (DVT) AND (TPC) ARE ADJUSTED WITH THEIR WINDINGS IN SERIES.
  - REMOVE (A) RESISTANCE LAMP FROM ITS SOCKET. STRAP 3T AND 3B (RV).
  - WHEN PULSE REPEATING REQUIREMENTS ARE USED, PROVIDE INPUT PULSES IN ACCORDANCE WITH REQUIREMENT F2. THE OUTPUT AND THE ADJUSTING PROCEDURE SHALL BE IN ACCORDANCE WITH REQUIREMENT FS. 37 ± 2% BREAK AT 6PPS AND 60 ± 2% BREAK AT 12PPS (LU), (TC) AND (TO) RELAYS NEED NOT MEET READJUST CURRENT FLOW REQUIREMENTS. USE STRAPS AT (B) AND (C) RESISTORS AS REQUIRED. TO MEET BOTH CURRENT FLOW TEST AND % BREAK LIMITS AT 12PPS.
  - ADJACENT RELAYS SHALL NOT BE ENERGIZED. SEE BSP.
  - SHORT CIRCUIT (NA), (NB) AND (NC) RESISTORS. (P1, P2, P3 AND P4 CONNECTED IN SERIES.)

PBX SYSTEMS

NO. 552A, 552C, 556A, 605A, 607A, 608A, 701A, 701B, 711A, 711B OR 740E  
TIE TRUNK CIRCUIT

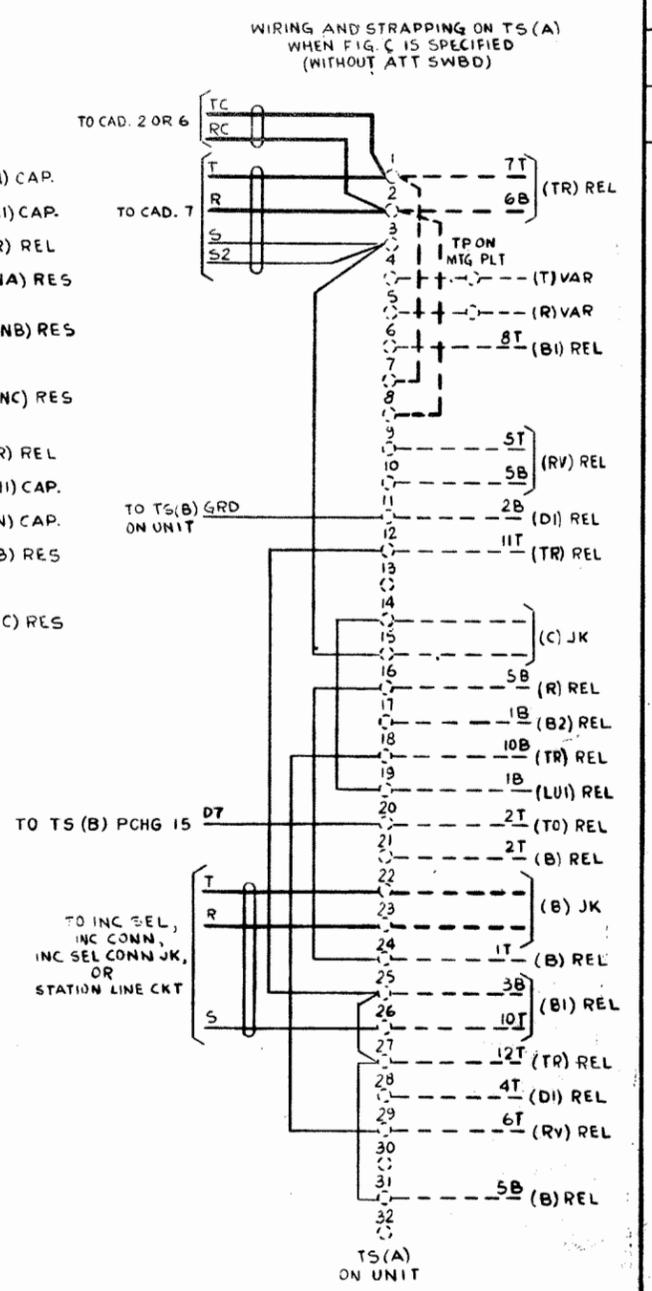
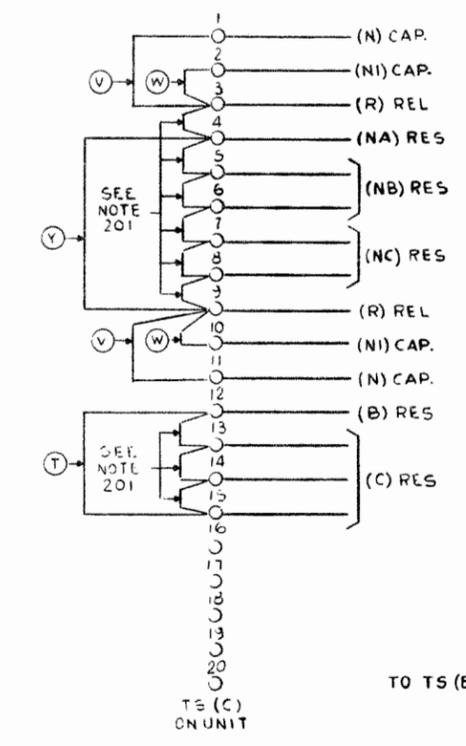
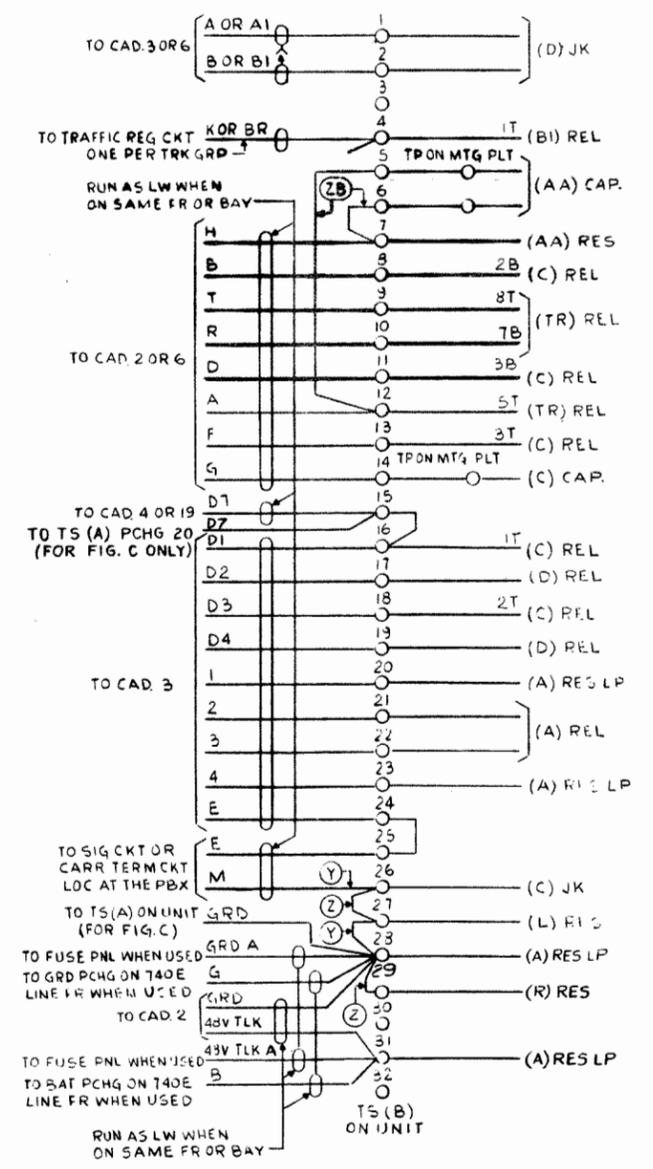
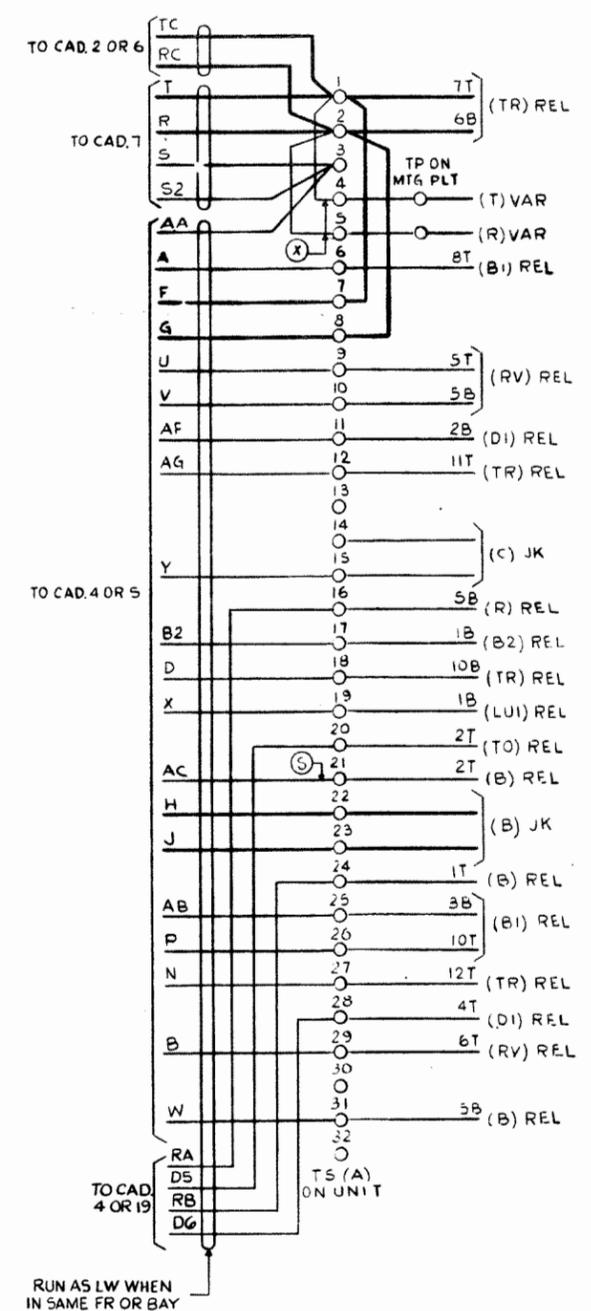
**SD-66799-0106**

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**CAD. I**  
(FOR FIG. 1 & C)  
TRUNK COMMON



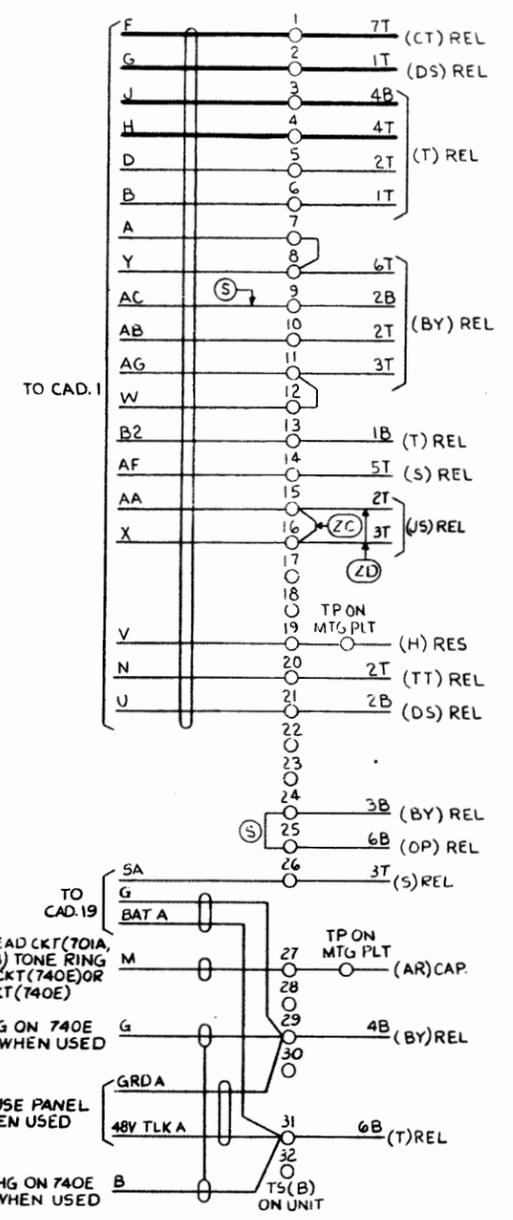
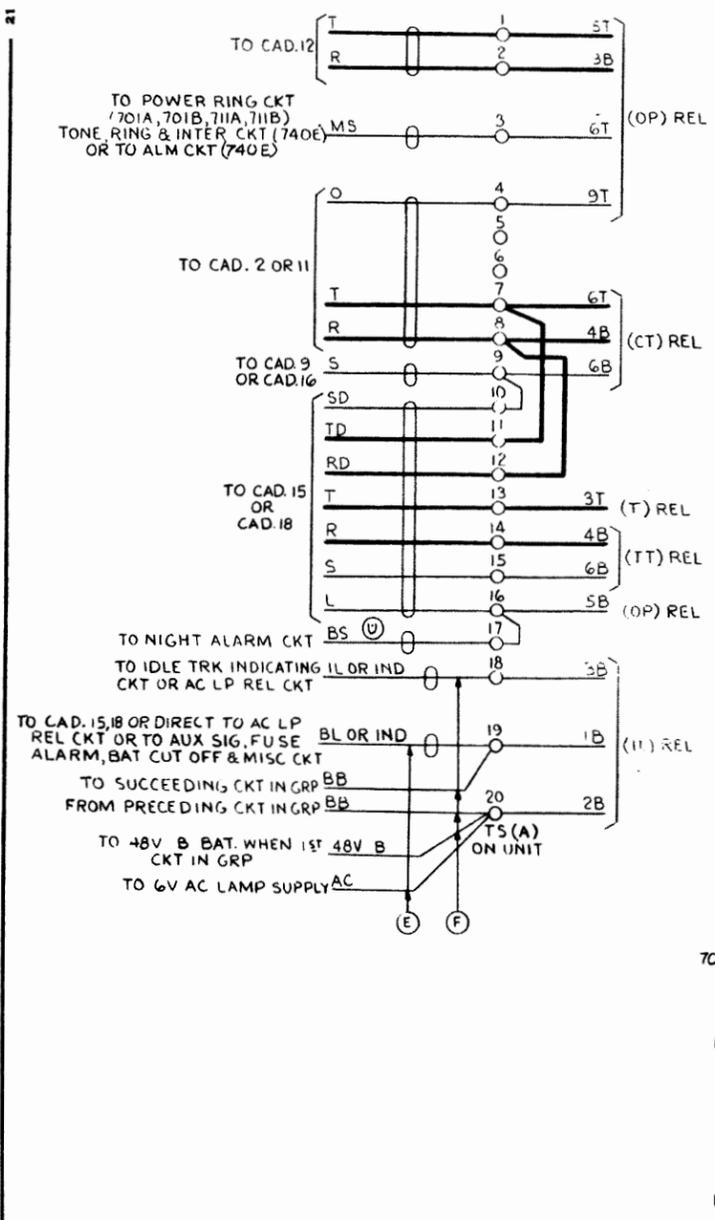
PJW:LC  
MSE:BD

PBX SYSTEMS  
NO. 552A, 552D, 556A, 605A, 607A, 608A, 701A, 701B, 711A, 711B, OR 740E TIE TRUNK CIRCUIT  
BELL TELEPHONE LABORATORIES INCORPORATED  
SD-66799-0108  
25

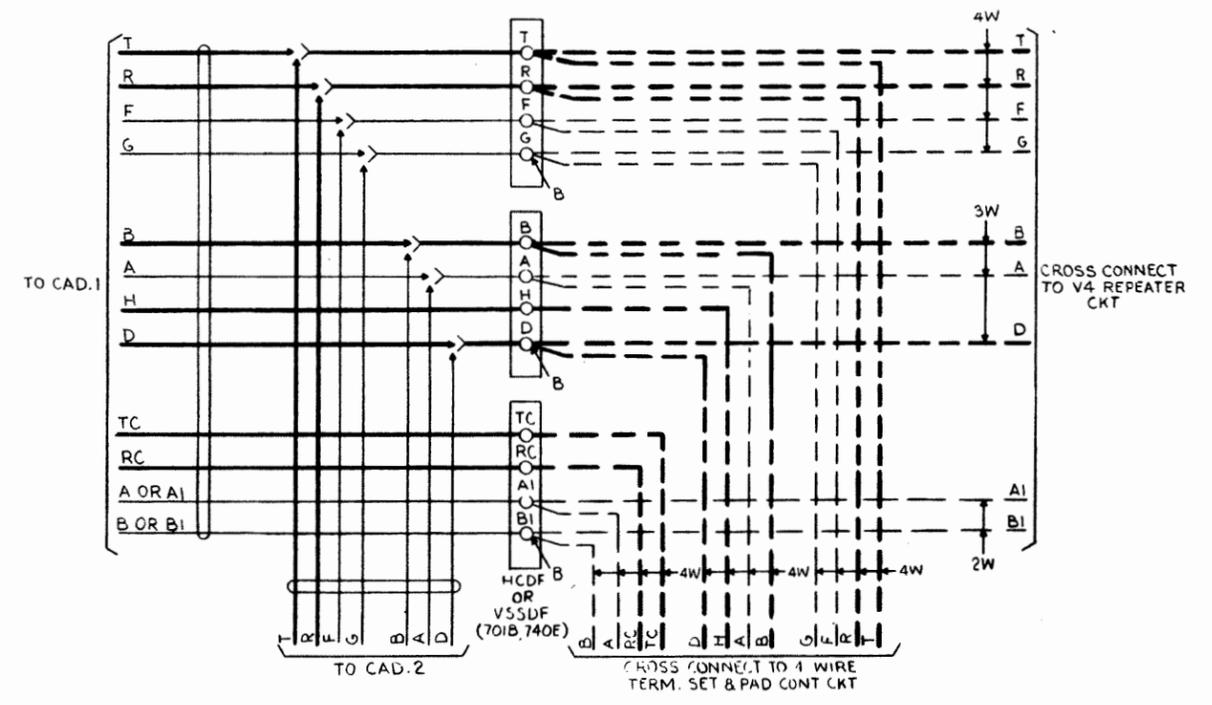


DRAWING ISSUE	
1	JLP L64 FC
2A	176 H73 FC
3B	176 H73 FC

**CAD.5**  
(FOR FIG. B)  
NO. 607A SWITCHBOARD APPLIQUE CKT



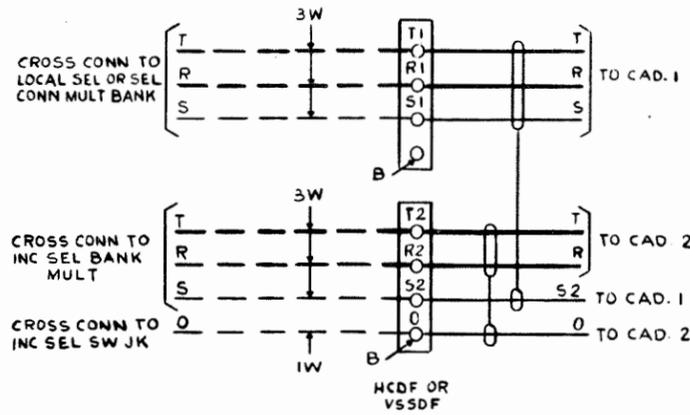
**CAD.6**  
(FOR FIG. 1, 2 & 3)  
CROSS CONNECTS TO V4 REPEATER CKT, 4-WIRE TERM. CKT OR 4-WIRE TERM. SET & PAD CONTROL CKT FROM TRUNK COMMON CKT



SD-66799-0110

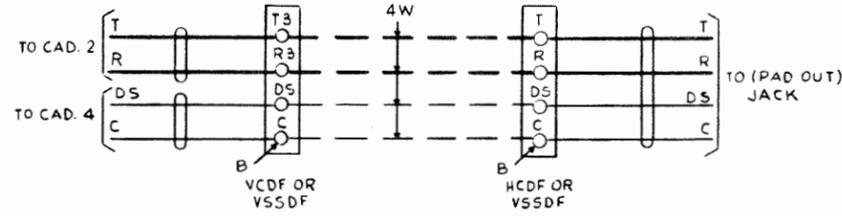
POWER SYSTEMS	
NO. 552A, 552D, 556A, 605A, 607A, 608A; 701A, 701B, 711A, 711B OR 740E TIE TRUNK CIRCUIT	
2	
BELL TELEPHONE LABORATORIES INCORPORATED	SD-66799-0110 PRINTED IN U.S.A.

CAD. 7  
(FOR FIG. 1 & 2)



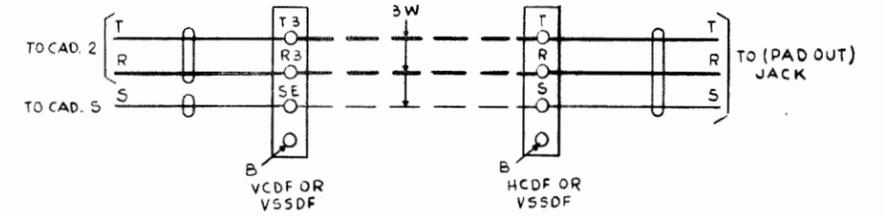
CAD. 8  
(FOR FIG. 4)

C (PAD-OUT) JK CKT (552A, 552D, 556A, 605A)



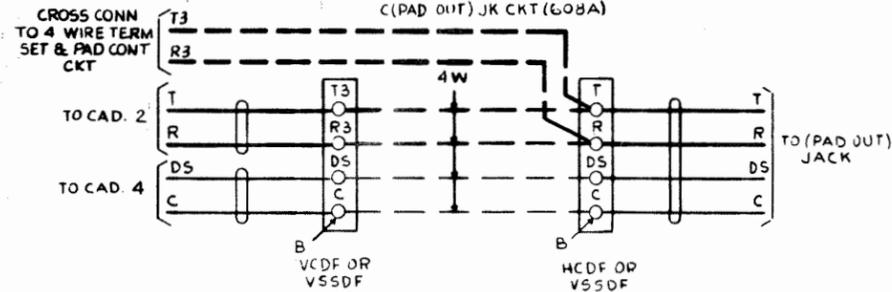
CAD. 9  
(FOR FIG. 5)

C (PAD-OUT) JK CKT (607A)

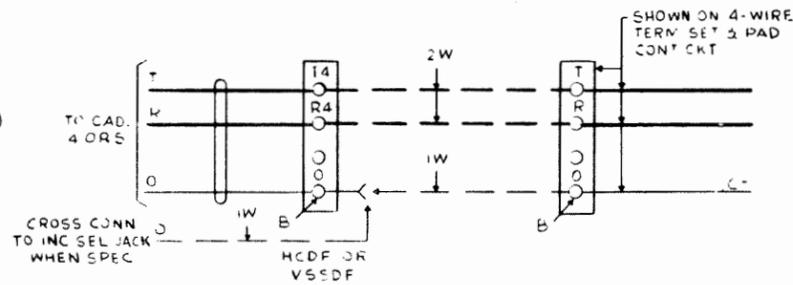


CAD. 10  
(FOR FIG. 6)

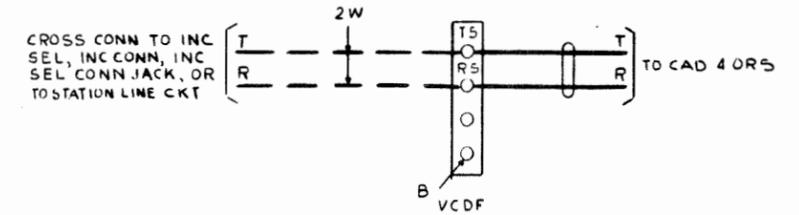
C (PAD OUT) JK CKT (608A)



CAD. 11  
(FOR FIG. A & B WHEN FIG. 2 IS NOT SPEC)

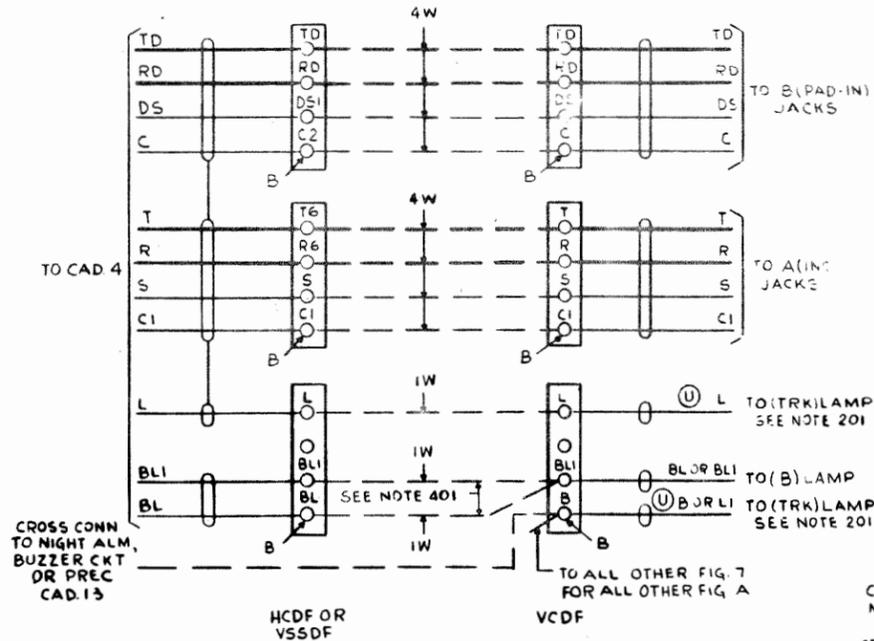


CAD. 12  
(FOR FIG. A & B)



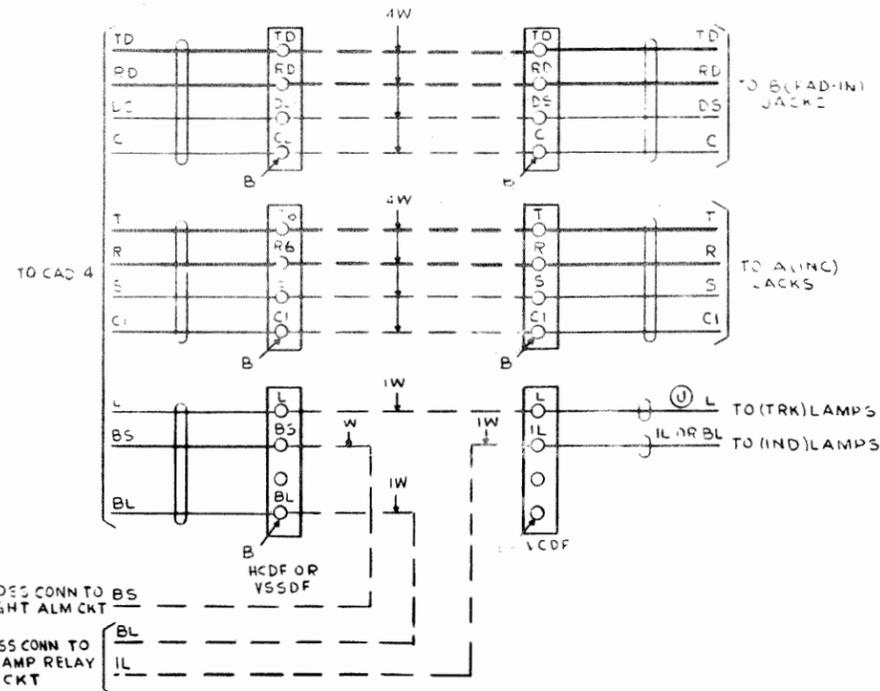
CAD. 13  
(FOR FIG. A & 7)

A (INC) & B (PAD IN) JK & LAMP CKT (552A, 552D, 556A, 605A)



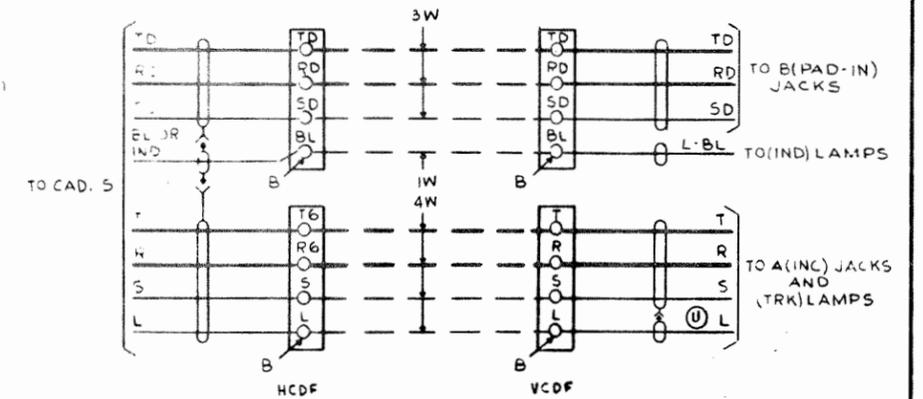
CAD. 14  
(FOR FIG. A & B)

A (INC) & B (PAD IN) JK & LAMP CKT (608A)



CAD. 15  
(FOR FIG. 9 & 10)

A (INC) & B (PAD-IN) JK & LAMP CKT (607A)



66799-0111

RUME

PBX SYSTEMS  
NO. 552A, 552D, 556A, 605A, 607A, 608A, 701A, 701B, 711A, 711B, UK 740E  
TIE TRUNK CIRCUIT

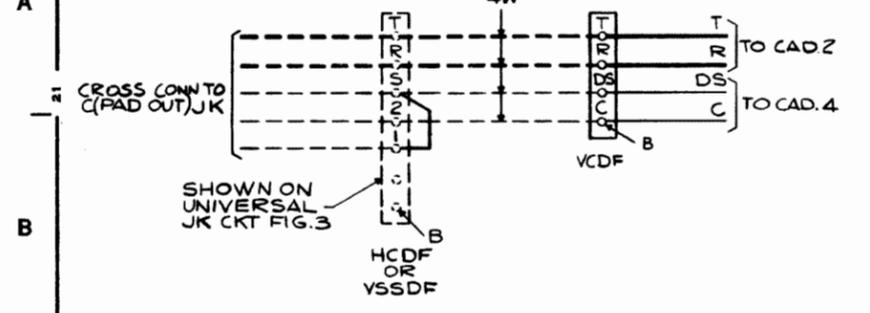
SD-66799-0111

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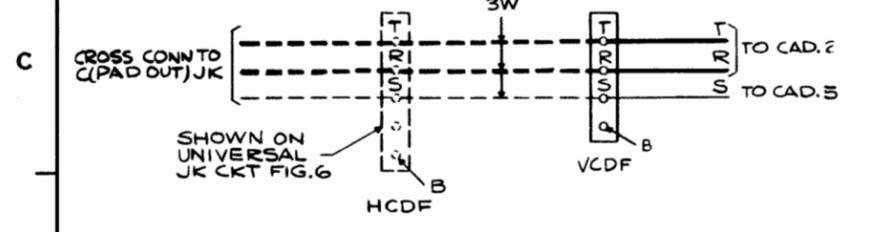
25 PRINTED IN U.S.A.

DRAWING	1	RES
ISSUE	2A	FC
	3B	FC

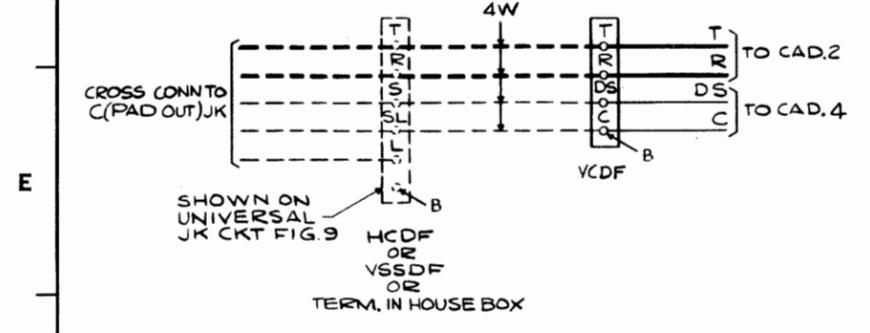
**CAD. 16**  
(FOR FIG. 5)  
(FOR UNIVERSAL JACK CKT)  
C (PAD OUT) JACK  
(552A, 552D, 605A)



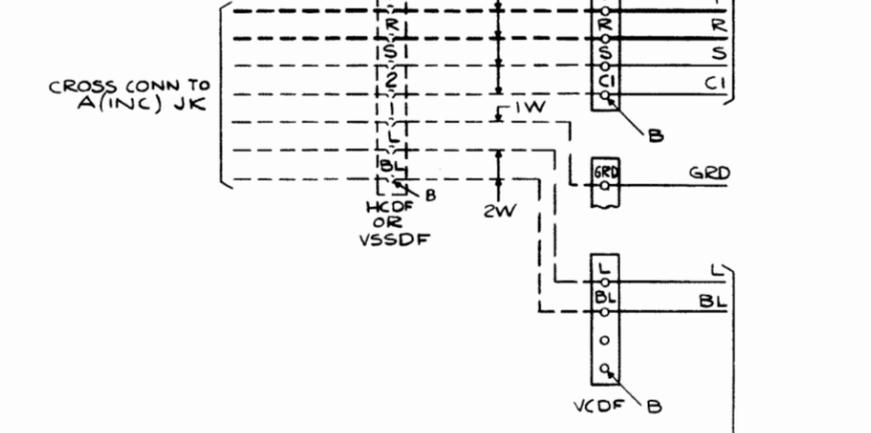
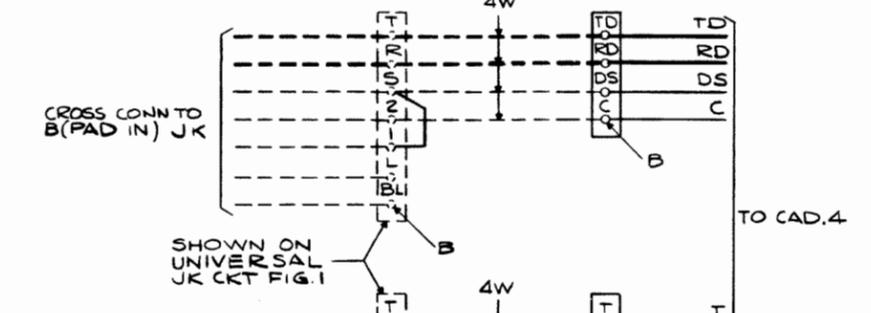
(607A)



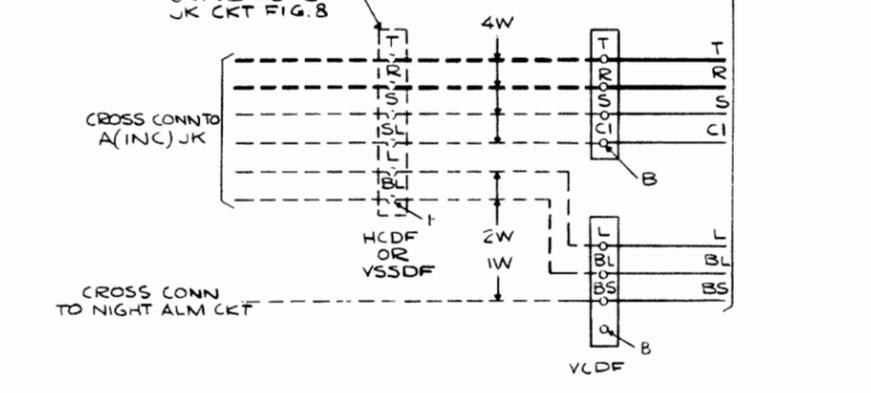
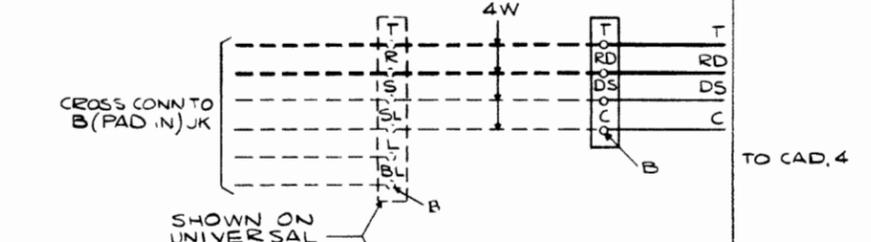
(608A)



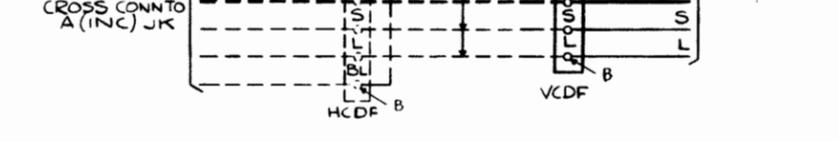
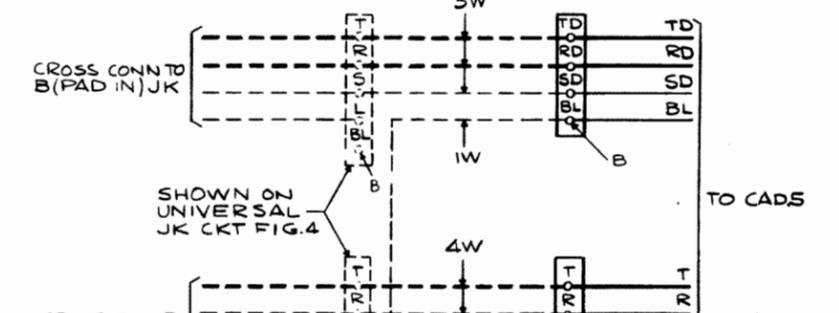
**CAD. 17**  
(FOR FIG. 7 & 8)  
(FOR UNIVERSAL JACK CKT)  
B (PAD IN) & A (INC)  
JACK & LAMP  
(552A, 552D, 605A)



(608A)



**CAD. 18**  
(FOR FIG. 7)  
(FOR UNIVERSAL JACK CKT)  
B (PAD IN) & A (INC)  
JACK & LAMP  
(607A)



DRAWING ISSUE

2A	5/63 JJK FC
3B	5/63 JJK FC

A  
B  
C  
D  
E  
F  
G  
H

HY  
A  
B  
C  
D  
E  
F  
G  
H

3



PBX SYSTEMS  
NO. 552A, 552D, 556A, 605A, 607A, 608A,  
701A, 701B, 711A, 711B, GR 74CE  
TIE TRUNK CIRCUIT

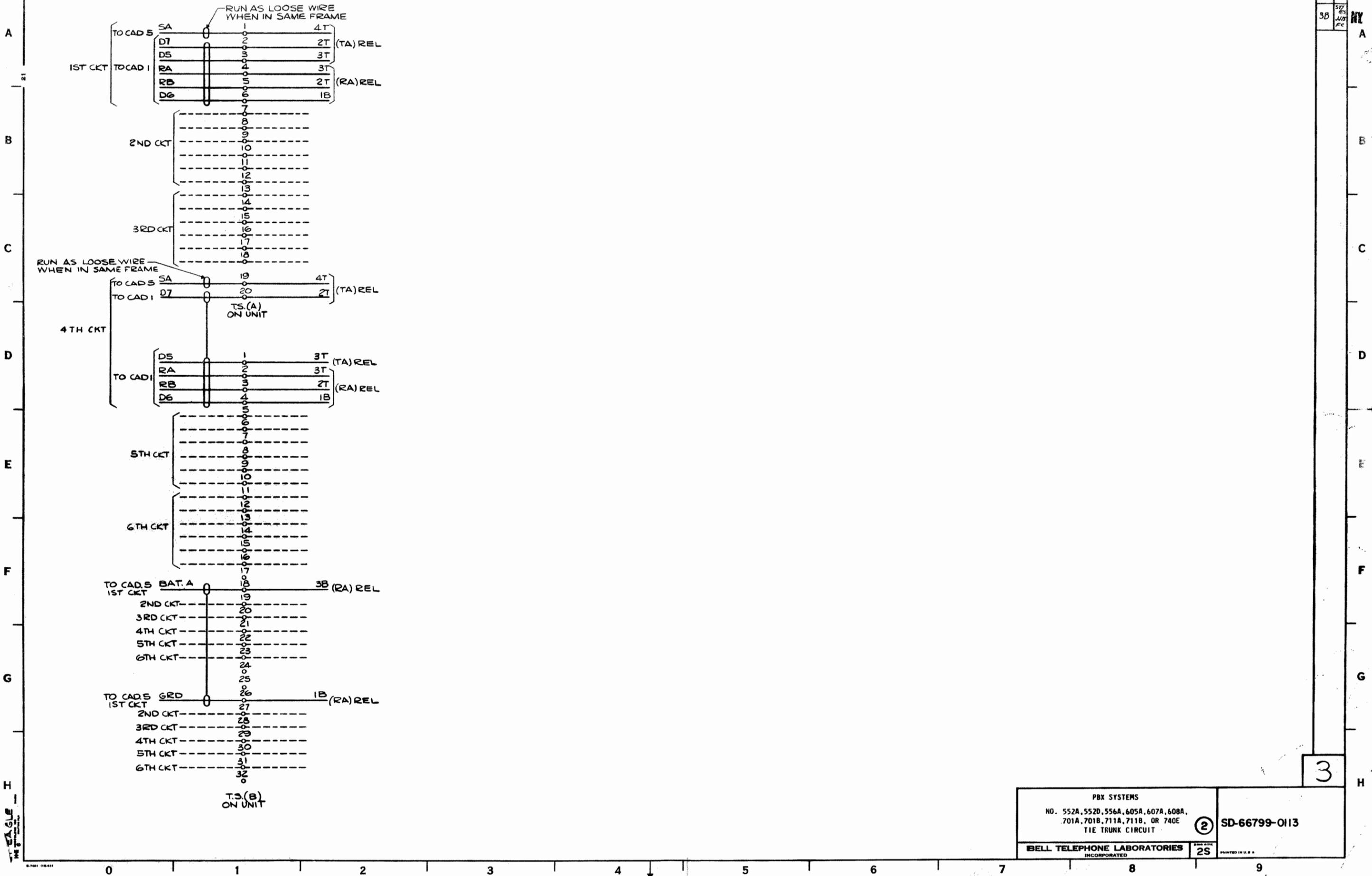
BELL TELEPHONE LABORATORIES  
INCORPORATED

SD-66799-0112

25

CAD. 19  
(FOR FIG. D)

DRAWING ISSUE  
2A  
3B



PBX SYSTEMS	
NO. 552A, 552D, 556A, 605A, 607A, 608A, 701A, 701B, 711A, 711B, OR 740E	
TIE TRUNK CIRCUIT	
② SD-66799-0113	
BELL TELEPHONE LABORATORIES INCORPORATED	2S PRINTED IN U.S.A.